DOE Computer Graphics Forum
2012 Site Survey

Site Name: Los Alamos National Laboratory

Site Division or Group: Production Visualization

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Group Overview

Mission:
Systems and visualization support for ASC weapons program and other LANL programs

Past Year's Activities:
Refurb/redesign/redeployment of LANL Visualization Corridor
1) Redesign of Powerwall Theater
2) Install of Viewmaster 2 visualization cluster
3) Completion of Cielo tri-lab viz deployment activities

Completion of tasks for LDRD on analysis of streaming data

Support of Virtual Glovebox project

Many visualizations, in particular much support of turbulence runs on Cielo/VM2

Plans and Priorities:
Finish up the Viz Corridor refurbishment

Trinity design activities

More viz

Funding Sources
Mostly ASC, some from other sources

Current Resources

Hardware:
Viewmaster 2: a 215-node GPU enhanced rendering cluster with NVIDIA Quadro 6000s and 5000s

Lightshow: mini-VM2, a 32-node testbed/open Viz cluster

Many individual machines, equipped variously

Powerwall Theater, in process of rebuild

5-wall CAVE

Software:
EnSight, CAVELib, some VisIt, some ParaView

Staff:
Around 8 people, including systems, research, software and expert viz

Planned Growth

Hardware Acquisitions
Probably none, beyond small testbed things and desktops

Software Acquisitions
None

Personnel Acquisitions
None

Additional Comments
Look forward to seeing you all!